

Multi-axis controllers CMXR-C1

FESTO



Multi-axis controllers CMXR-C1

Key features

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At a glance

Powerful – reducing cycle times with optimum motion

Reducing cycle times is a requirement of all customers. There are limits, however, to what is possible based on, for example, the mechanical system, the travel distances or the maximum forces acting on a work-piece.

The challenge is to be quick and at the same time protect the mechanical system. The multi-axis controller CMXR offers the following features:

- Motion path smoothing
- Ramp shapes for acceleration
- Constant path speed

Economical – reducing costs with easy configuration

Reducing costs is always an important issue. The Festo Configuration Tool (FCT) in combination with the programming language Festo Teach Language (FTL) makes configuration quick and easy and significantly shortens configuration times.

This enables the full focus to be on developing the application, since the basic motion programs are contained in the CMXR. The FTL programming tool utilises these basic programs. The FTL programs can therefore be used immediately.

Reliable – easy handling of tools in three dimensions

The flange is not the end of a kinematic system. Mounted on the flange are the tools, which can, for example, comprise pneumatic drives such as the semi-rotary drive DRQD. Tools oriented other than vertically are a challenge for a controller. The CMXR enables the end position of the tool, for example a vacuum suction cup, to be defined three-dimensionally and

transfers this point to the programmed path. This feature also makes it easy to move the three-dimensionally positioned tool in the direction of the tool's path simply by pressing a button on the teach pendant CDSA. The teach-in of positions on parts slides, for example, is thus very easy and efficient.

Reliable – easy integration with finished interfaces

The CMXR system offers fully defined interfaces for actuation via an external controller. This can be done with a simple method using digital signals or via a Profibus. These interfaces enable programs to be selected, started or stopped, for example. The Profibus variant also offers the option of reading or writing variables from the CMXR controller.

This transfer of variables enables movements to be influenced or even coupled with a process running on the external controller. To minimise the complexity when using an external PLC, modules for the PLC systems Siemens Simatic S7 and systems based on CoDeSys V2.3 are supplied for actuation via Profibus.

Flexible – from simple to complex kinematic systems

Cartesian system



Tripod kinematics



The multi-axis controller CMXR is the heart of a complete kinematic system solution. It combines a mechanical system, electrical drive technology and control technology into a complete motion control package with integrated and harmonised interfaces for all system components involved.

The multi-axis controller enables simple axis movements, from point to point to complex path control. It is able to control simple and complex kinematic systems with up to 6 degrees of freedom in three dimensions. These include, among others, linear and three-dimensional gantries (Cartesian systems) as well as tripod kinematic systems.

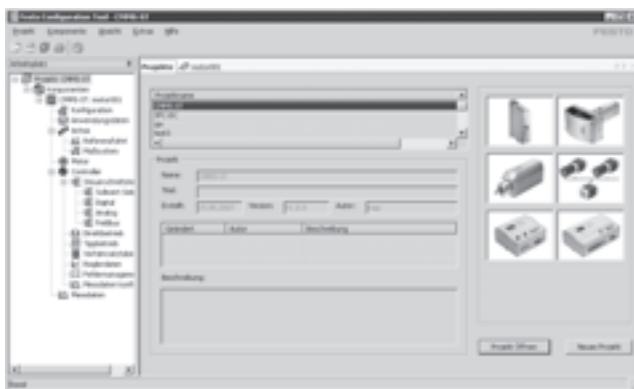
Multi-axis controllers CMXR-C1

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Key features

At a glance

Convenient – quick and easy configuration



The main requirements for product configuration software are speed, reliability and user-friendliness. The multi-axis controller CMXR, like other products from Festo, is configured via the Festo Configuration Tool (FCT). Electrical variables (e.g. inputs and

outputs) as well as mechanical variables (e.g. choice of the kinematic system) are defined in the configuration. The sophisticated user guidance system guarantees quick and easy configuration of the complex multi-axis system.

Transparent – programming in plain text with FTL

Via teach pendant CDSA



Via Festo Configuration Tool (FCT)



The motion programs are programmed using the text-based macro programming tool of the Festo Teach Language (FTL). This powerful programming tool contains macros, for example for movements, dynamic settings up to I/O processing of peripheral devices

such as grippers, for example, and has been specially developed for the CMXR. Programming can be done online via the teach pendant CDSA or offline via the FTL programming editor. The FTL editor is integrated in the Festo Configuration Tool (FCT).

Convenient – easy programming via teach-in



When creating a motion program, the motion sequence is very often known but not the precise position to be approached, for example of a gripper or a tray. These can only be determined directly during commissioning by means of accurate approaching. The CMXR in combination with the teach pendant CDSA offers dialogue-based software for this purpose, thus enabling quick and easy teach-in of the necessary positions.

Flexible – mobile operation and monitoring with CDSA



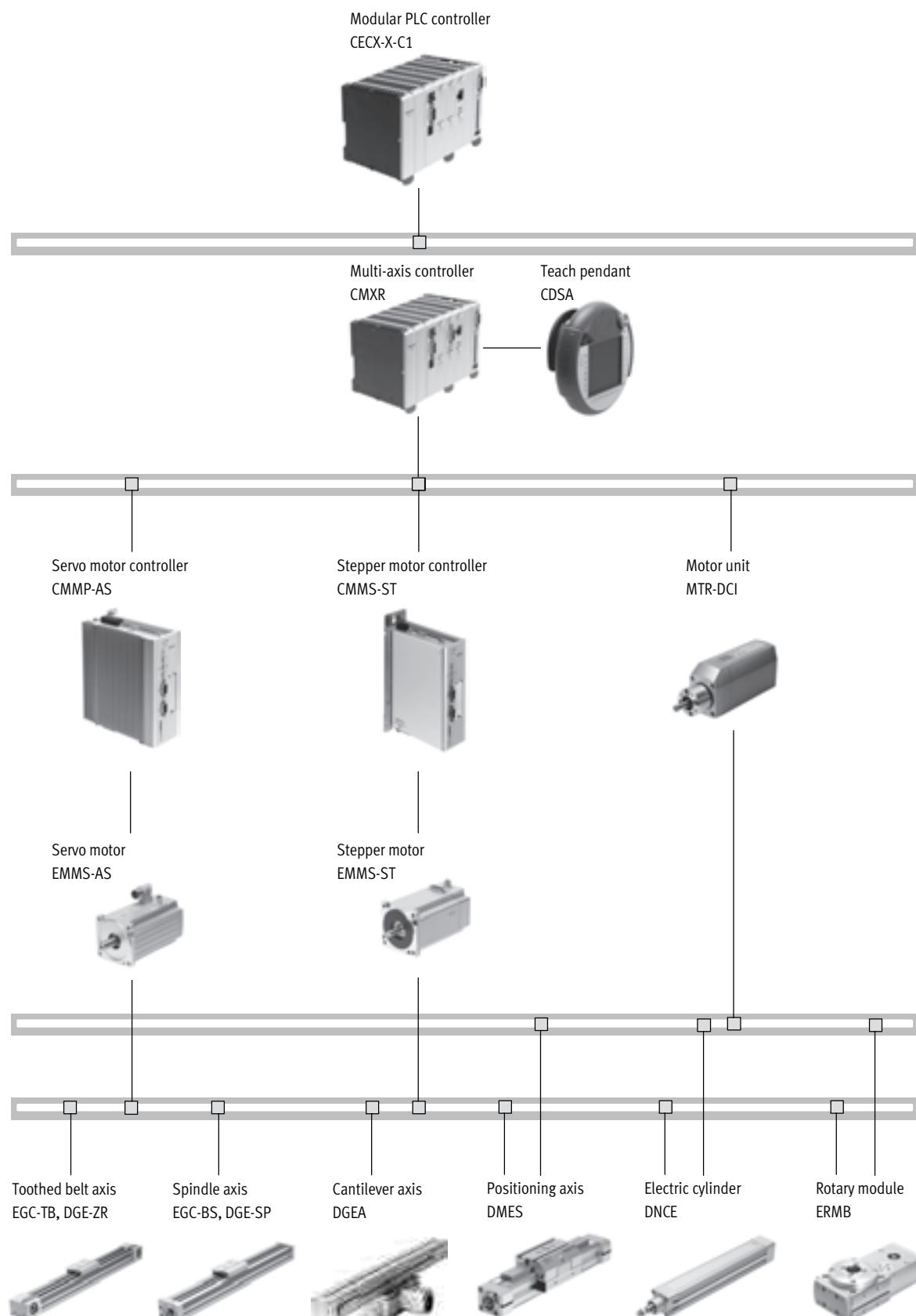
The teach pendant CDSA features an emergency stop switch as well as a 3-stage enabling key. Both devices are designed with two channels and are prepared for integration in the customer's safety circuits. The purpose of the enabling key is to approve the drive power during set-up. In addition to the hardware and ergonomic handle, the CDSA also features a colour touch screen as an alternative to the keypad for starting actions.

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Everything from a single source – perfectly co-ordinated



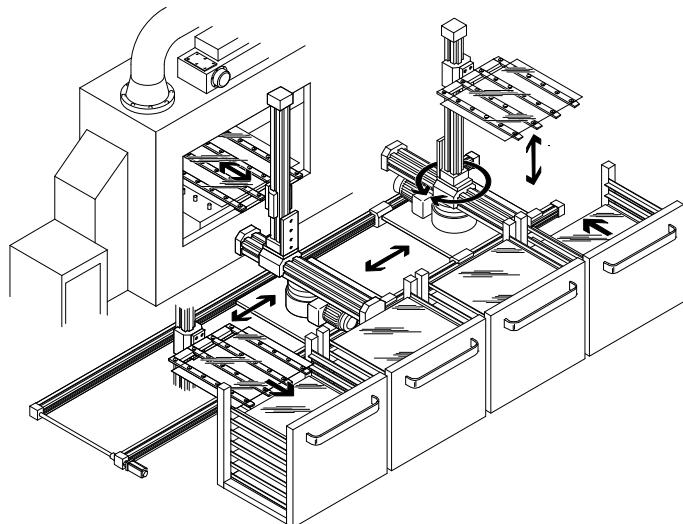
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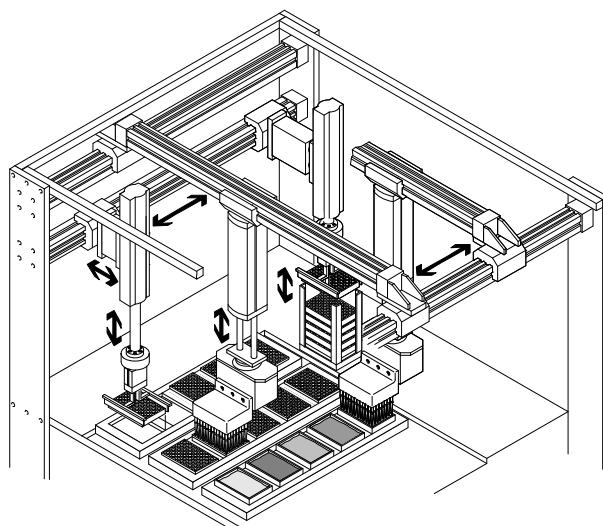
Key features

Application examples

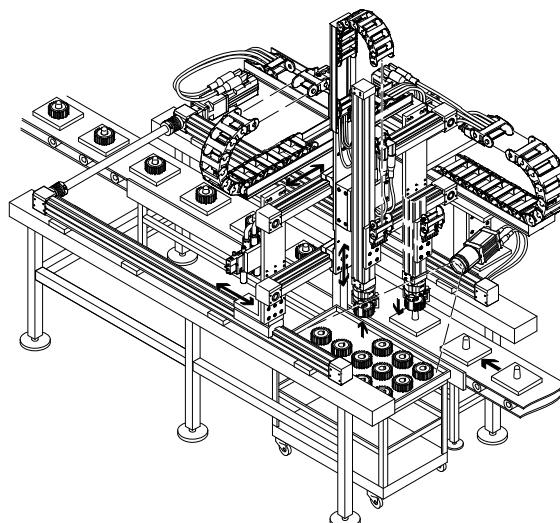
Removing and palletising workpieces



Handling and picking carrier trays



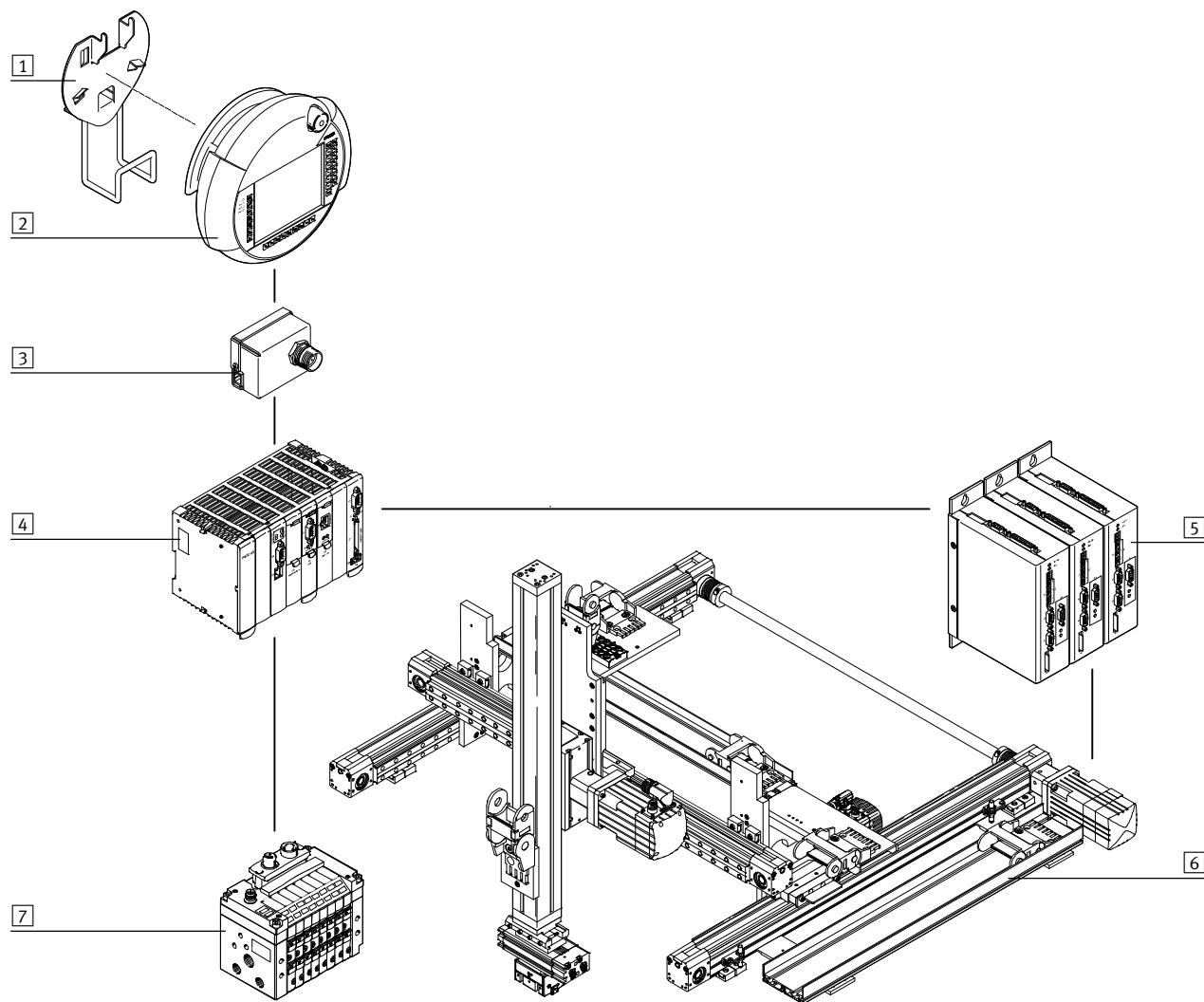
Feeding workpieces with simultaneous quality inspection via a vision system



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Peripherals overview

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Accessories		➔ Page/Internet
Type	Brief description	
1 Retainer CAFM	Wall fixture for the teach pendant CDSA with cable suspension	22
2 Teach pendant CDSA	For operating, monitoring and programming the multi-axis controller CMXR-C1	20
3 Interface housing CAMI	Adapter for connecting the teach pendant CDSA outside a control cabinet with the controller CMXR inside a control cabinet	23
4 Multi-axis controller CMXR	Enables simple axis movements, from point to point to complex path control	9
5 Motor controller CMM...	For controlling stepper or servo motors from Festo via a CAN interface	cmm
6 Three-dimensional gantry	Wide range of kinematic systems within the multi-axis modular system from Festo	three-dimensional gantry
7 Valve terminal	The multi-axis controller enables the connection of peripheral devices, for example valve terminals, via a CAN interface	valve terminal
– Cables and plugs	Connecting cables and plugs for connecting the individual devices	23

Multi-axis controllers CMXR-C1

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Type codes

Type codes

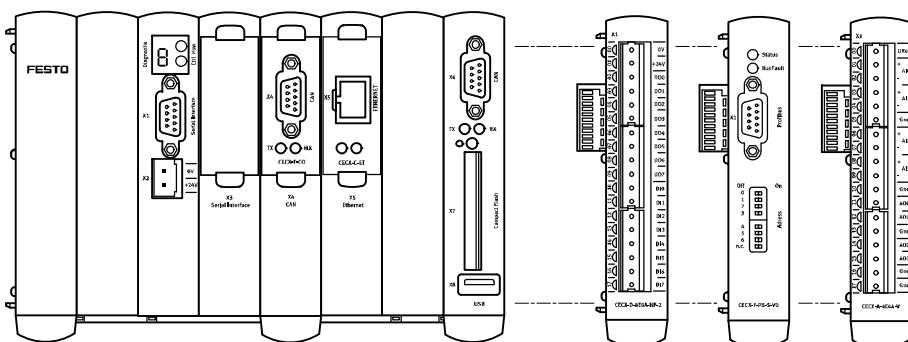
CMXR	-	C1
Type		
CMXR	Multi-axis controller	
Controller		
C1	Controller 1	

Multi-axis controllers CMXR-C1

Peripherals overview

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Controller CMXR-C1 with peripheral modules



Peripheral modules		→ Page/Internet
Type	Brief description	
Input/output module, digital CECX-D-8E8A-NP-2	• 8 digital inputs • 8 digital outputs	12
Input module, digital CECX-D-16E	• 16 digital inputs	14
Output module, digital CECX-D-14A-2	• 14 digital outputs	15
Input/output module, analogue CECX-A-4E4A-V	• 4 analogue voltage inputs • 4 analogue voltage outputs	16
Input/output module, analogue CECX-A-4E4A-A	• 4 analogue current inputs • 4 analogue current outputs	16
Encoder interface CECX-C-2G2	• 2 encoder interfaces	18
Fieldbus interface CECX-F-PB-S-V0	• Profibus slave DP-V0	19

- Note

- Plugs are not included in the scope of delivery for the peripheral modules (plugs → 23)

- Max. 1 Profibus slave module can be used
- Max. 8 peripheral modules can be used

Additional product information
→ www.festo.com

Control types

The multi-axis controller CMXR can be controlled in four different ways.

The handheld terminal can be connected with all four types.

The components for each control type must be ordered separately.

Required components					
Designation	Type	Control type			
		in stand-alone mode	with digital inputs/outputs	with Profibus DP	Profibus DP with digital inputs/outputs
CCU with Ethernet, CAN and memory card	CMXR-C1	1	1	1	1
Input/output module, digital	CECX-D-8E8A-NP-2	1	3	—	1
Fieldbus interface	CECX-F-PB-S-V0	—	—	1	1
Plug, 2-pin	NECC-L1G2-C1	2	4	—	2
Plug, 8-pin	NECC-L1G8-C1	2	6	—	2

Multi-axis controllers CMXR-C1

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Technical data

Controller
CMXR-C1



General technical data

Operating voltage range	[V DC]	19.2 ... 30
Nominal operating voltage	[V DC]	24
Power consumption at 24 V	[W]	14
Max. power consumption	[W]	69
Max. protection	[A]	10
Type of mounting		On H-rail (TS 35x7.5)
Controller operating mode		Manual
Operating elements		CTRL button
Status display		7-segment display LED green = power
Supported kinematic systems		2-axis gantries
		3-axis gantries
		Any interpolation
		Tripod kinematics
Total number of axes		6
Breakdown of the axes		3 basic axes
		3 auxiliary axes
		1 manual axis
CPU data		64 MB DRAM
		400 MHz processor
Memory card		Compact Flash ≥ 128 MB
Control methods		I/O standalone
		I/O (16I/16O)
		I/O + Profibus DP
		Profibus DP
Program organisation		Via FTL programs
Configuration support		FCT (Festo Configuration Tool)
Command set		Mathematical functions
Max. number of commands		Approx. 1,500
Programming software		FCT (Festo Configuration Tool)
		CDSA-D1-VX
Programming language		FTL (Festo Teach Language)
		Text-based macro language
USB interface		USB 1.1
Protection class		III
Product weight	[g]	580
Materials		
Note on materials		Contains PWIS (paint-wetting impairment substances)
		RoHS-compliant

Multi-axis controllers CMXR-C1

Technical data

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Technical data – Interfaces

Ethernet

Connector plug	RJ45 socket, 8-pin
Transmission speed [Mbps]	10/100
Supported protocols	TCP/IP

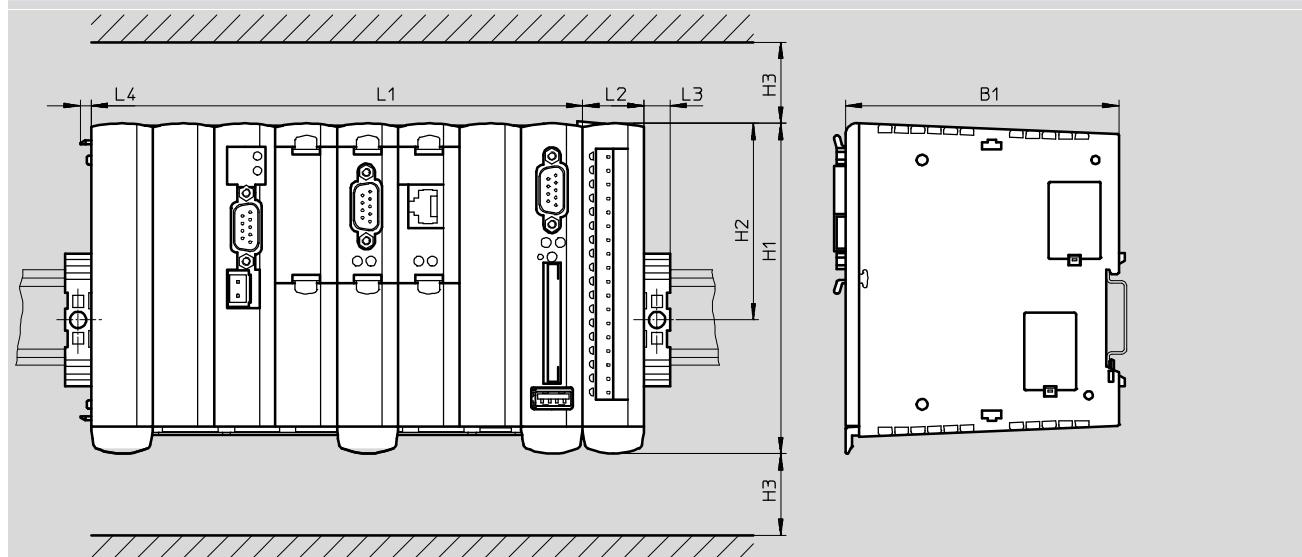
Fieldbus interface

Type	CAN bus
Number	2x CANopen masters
Connection technology	Sub-D plug, 9-pin
Max. fieldbus transmission rate [Mbps]	1
	Can be set via software
Electrical isolation	No

Operating and environmental conditions

Ambient temperature [°C]	5 ... 55
Storage temperature [°C]	-40 ... +70
Resistance to shock	EN 60068-2-27 EA 15 g, 11 ms (half-sine)
Resistance to vibration	EN 60068-2-6-FC 5 ... 9 Hz 3.5 mm 9 ... 150 Hz 1g
Relative air humidity [%]	10 ... 95
Protection class	IP20
CE mark (see declaration of conformity)	To EU EMC Directive
Certification	cULus Listed (OL) C-Tick

Dimensions



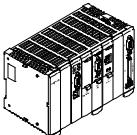
Type	B1	H1	H2	H3	L1	L2	L3	L4
CMXR-C1	100	121	72	30	180	22.5	9.5	4

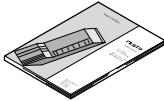
CANopen® is a registered trademark of its respective trademark holder in certain countries.

Multi-axis controllers CMXR-C1

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Technical data

Ordering data		Part No.	Type
Controller		552095	CMXR-C1

Ordering data – Documentation ¹⁾			
	Language	Part No.	Type
		System manual	Programming manual
	DE	560309 GDCP-CMXR-SY-DE	560315 GDCP-CMXR-SW-DE
	EN	560310 GDCP-CMXR-SY-EN	560316 GDCP-CMXR-SW-EN
	ES	560311 GDCP-CMXR-SY-ES	560317 GDCP-CMXR-SW-ES
	FR	560312 GDCP-CMXR-SY-FR	560318 GDCP-CMXR-SW-FR
	IT	560313 GDCP-CMXR-SY-IT	560319 GDCP-CMXR-SW-IT
		Hardware manual	Control interface manual
	DE	560321 GDCP-CMXR-HW-DE	560327 GDCP-CMXR-F-DE
	EN	560322 GDCP-CMXR-HW-EN	560328 GDCP-CMXR-F-EN
	ES	560323 GDCP-CMXR-HW-ES	560329 GDCP-CMXR-F-ES
	FR	560324 GDCP-CMXR-HW-FR	560330 GDCP-CMXR-F-FR
	IT	560325 GDCP-CMXR-HW-IT	560331 GDCP-CMXR-F-IT

1) User manual in paper form is not included in the scope of delivery

Multi-axis controllers CMXR-C1

Technical data

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Input/output module,
digital
CECX-D-8E8A-NP-2



General technical data

Operating voltage range	[V DC]	19.2 ... 30
Nominal operating voltage	[V DC]	24
Electrical connection technology for I/O		Socket strip, grid 5.08 mm
Power consumption at 5 V	[W]	0.4
Power consumption at 24 V	[W]	1.9
Protection class		III
Product weight	[g]	135
Materials		
Note on materials		Contains PWIS (paint-wetting impairment substances)
		RoHS-compliant

Technical data

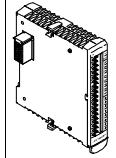
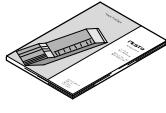
Digital inputs		
Number		8
Fast clock pulse inputs		2, interruptible, response time 50 µs
Input voltage	[V DC]	24
Nominal value for FALSE	[V DC]	≤ 5
Nominal value for TRUE	[V DC]	≥ 15
Input signal delay	[ms]	20, 100, adjustable
	[kHz]	12 with interrupt input
Electrical isolation		Yes, via optocoupler
Status display		Green LED
Switching logic		PNP (positive logic)
Digital outputs		
Number		8
Contact		Transistor
Output voltage	[V DC]	24
Output current	[A]	2 with 50% concurrence
Short circuit proof		Yes
Electrical isolation		Yes, via optocoupler
Status display		Orange LED
Switching logic		PNP (positive logic)

Multi-axis controllers CMXR-C1

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Technical data

Operating and environmental conditions	
Ambient temperature	[°C]
Storage temperature	[°C]
Resistance to shock	EN 60068-2-27 EA 15 g, 11 ms (half-sine)
Resistance to vibration	EN 60068-2-6-FC 5 ... 9 Hz 3.5 mm 9 ... 150 Hz 1g
Relative air humidity	[%]
Protection class	IP20
Certification	cULus Listed (OL)

Ordering data		Documentation ¹⁾		
Input/output module, digital	Part No. Type	Language	Part No.	Type
	552099 CECX-D-8E8A-NP-2		DE	560585 GDCC-CECX-D-8E8A-NP-DE
		EN	560586 GDCC-CECX-D-8E8A-NP-EN	
		ES	560587 GDCC-CECX-D-8E8A-NP-ES	
		FR	560588 GDCC-CECX-D-8E8A-NP-FR	
		IT	560589 GDCC-CECX-D-8E8A-NP-IT	

1) User manual in paper form is not included in the scope of delivery

Multi-axis controllers CMXR-C1

Technical data

Input module,
digital
CECX-D-16E



General technical data

Electrical connection technology for I/O	Socket strip, grid 5.08 mm
Power consumption at the system bus [W]	0.4
Protection class	III
Product weight [g]	130
Materials	
Note on materials	Contains PWIS (paint-wetting impairment substances) RoHS-compliant

Technical data

Digital inputs	
Number	16
Fast clock pulse inputs	2, interruptible, response time 100 µs
Input voltage [V DC]	24
Nominal value for FALSE [V DC]	≤ 5
Nominal value for TRUE [V DC]	≥ 15
Input signal delay [ms]	20, 200, adjustable
	Additionally 0.2 ms with interrupt inputs
Electrical isolation	Yes, via optocoupler
Status display [V DC]	LED
Switching logic	PNP (positive logic)

Operating and environmental conditions

Ambient temperature [°C]	5 ... 55
Storage temperature [°C]	-40 ... +70
Resistance to shock	EN 60068-2-27 EA 15 g, 11 ms (half-sine)
Resistance to vibration	EN 60068-2-6-FC 5 ... 9 Hz 3.5 mm 9 ... 150 Hz 1g
Relative air humidity [%]	10 ... 95
Protection class	IP20
Certification	cULus Listed (OL)

Ordering data

Input module, digital	Part No. Type	Documentation ¹⁾	Language	Part No.	Type
	552096 CECX-D-16E		DE	560573	GDCC-CECX-D-16E-DE
			EN	560574	GDCC-CECX-D-16E-EN
			ES	560575	GDCC-CECX-D-16E-ES
			FR	560576	GDCC-CECX-D-16E-FR
			IT	560577	GDCC-CECX-D-16E-IT

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Multi-axis controllers CMXR-C1

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Technical data

Output module,
digital
CECX-D-14A-2



General technical data

Operating voltage range	[V DC]	19.2 ... 30
Nominal operating voltage	[V DC]	24
Electrical connection technology for I/O		Socket strip, grid 5.08 mm
Power consumption at the system bus	[W]	0.4
Protection class		III
Product weight	[g]	135
Materials		
Note on materials	Contains PWIS (paint-wetting impairment substances)	
	RoHS-compliant	

Technical data

Digital outputs		
Number		14
Contact		Transistor
Output voltage	[V DC]	24
Output current	[A]	2 with 50% concurrence per group
Short circuit proof		Yes
Electrical isolation		Yes, via optocoupler
Electrical isolation in groups		Yes, in 2 groups
Status display	[V DC]	LED
Switching logic		PNP (positive logic)

Operating and environmental conditions

Ambient temperature	[°C]	5 ... 55
Storage temperature	[°C]	-40 ... +70
Resistance to shock		EN 60068-2-27 EA 15 g, 11 ms (half-sine)
Resistance to vibration		EN 60068-2-6-FC 5 ... 9 Hz 3.5 mm 9 ... 150 Hz 1g
Relative air humidity	[%]	10 ... 95
Protection class		IP20
Certification		cULus Listed (OL)

Ordering data

Output module, digital	Part No.	Type	Documentation ¹⁾	Language	Part No.	Type
	552097	CECX-D-14A-2		DE	560579	GDCC-CECX-D-14A-DE
				EN	560580	GDCC-CECX-D-14A-EN
				ES	560581	GDCC-CECX-D-14A-ES
				FR	560582	GDCC-CECX-D-14A-FR
				IT	560583	GDCC-CECX-D-14A-IT

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Multi-axis controllers CMXR-C1

Technical data

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Input/output module,
analogue
CECX-A-4E4A



General technical data		CECX-A-4E4A-V	CECX-A-4E4A-A
Variant		Voltage inputs/outputs	Current inputs/outputs
Electrical connection technology for I/O		Socket strip, grid 5.08 mm	
Power consumption at 5 V	[W]	0.3	0.3
Power consumption at 24 V	[W]	3.3	3.6
Protection class		III	
Product weight	[g]	135	
Materials			
Note on materials		Contains PWIS (paint-wetting impairment substances)	
		RoHS-compliant	

Technical data		CECX-A-4E4A-V	CECX-A-4E4A-A
Analogue inputs			
Number		4	4
Resolution	[bit]	14	14
Signal range	[V]	0 ... 10 Vref	-
		±10	-
	[mA]	-	0 ... 20
		-	4 ... 20
Value of the least significant bit (LSB)	[mV]	1.3	-
	[µA]	-	1.35
Supply voltage for actuators	[V DC]	10 ±2.5 % (max. 20 mA)	-
Input resistance	[Ω]	10x10 ⁶	< 200
Absolute accuracy at 25 °C	[%]	±0.01	±0.01
Sampling repeat time	[ms]	1	1
Electrical isolation		No	No
Analogue outputs			
Number		4	4
Resolution	[bit]	12	12
Max. load resistance	[Ω]	≥ 1 000	≤ 600
Signal range	[V]	±10	-
	[mA]	-	0 ... 20
Value of the least significant bit (LSB)	[mV]	5.32	-
	[µA]	-	5.39
Conversion time	[ms]	1	1
Absolute accuracy at 25 °C	[%]	±0.15	±0.15

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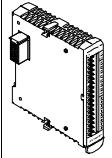
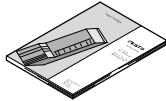
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Technical data

Operating and environmental conditions

Ambient temperature	[°C]	5 ... 55
Storage temperature	[°C]	-40 ... +70
Resistance to shock		EN 60068-2-27 EA 15 g, 11 ms (half-sine)
Resistance to vibration		EN 60068-2-6-FC 5 ... 9 Hz 3.5 mm 9 ... 150 Hz 1g
Relative air humidity	[%]	10 ... 95
Protection class		IP20
Certification		cULus Listed (OL)

Ordering data

Input/output module, analogue		Documentation ¹⁾	Language	Part No.	Type
	Part No. Type				
	Voltage inputs/outputs				Voltage inputs/outputs
	552100 CECX-A-4E4A-V		DE	560591	GDCC-CECX-A-4E4A-V-DE
	Current inputs/outputs		EN	560592	GDCC-CECX-A-4E4A-V-EN
	552101 CECX-A-4E4A-A		ES	560593	GDCC-CECX-A-4E4A-V-ES
			FR	560594	GDCC-CECX-A-4E4A-V-FR
			IT	560595	GDCC-CECX-A-4E4A-V-IT
					Current inputs/outputs
			DE	560597	GDCC-CECX-A-4E4A-A-DE
			EN	560598	GDCC-CECX-A-4E4A-A-EN
			ES	560599	GDCC-CECX-A-4E4A-A-ES
			FR	560600	GDCC-CECX-A-4E4A-A-FR
			IT	560601	GDCC-CECX-A-4E4A-A-IT

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Multi-axis controllers CMXR-C1

Technical data

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Encoder interface
CECX-C-2G2



General technical data

Operating voltage range	[V DC]	19.2 ... 30
Nominal operating voltage	[V DC]	24
Electrical connection technology for I/O		Socket strip, grid 5.08 mm
Power consumption at 5 V	[W]	0.6
Protection class		III
Product weight	[g]	135
Materials		
Note on materials		Contains PWIS (paint-wetting impairment substances) RoHS-compliant

Technical data – Interfaces

Digital inputs		
Fast clock pulse inputs		2 (latch function) response time 20 µs NPN/PNP
Electrical isolation		No
Encoder inputs		
Number		2
Connection technology		Sub-D socket, 9-pin
Resolution	[bit]	Speed measurement: 32
	[bit]	Distance measurement: 24
Transmitter supply voltage	[V DC]	24
	[V DC]	5.05 ±4 % (100 mA/channel)
Max. input frequency	[kHz]	250
Signal range	[V]	5 differential (RS422)
	[V]	24 single-ended

Operating and environmental conditions

Ambient temperature	[°C]	5 ... 55
Storage temperature	[°C]	-40 ... +70
Resistance to shock		EN 60068-2-27 EA 15 g, 11 ms (half-sine)
Resistance to vibration		EN 60068-2-6-FC 5 ... 9 Hz 3.5 mm 9 ... 150 Hz 1g
Relative air humidity	[%]	10 ... 95
Protection class		IP20
Certification		cULus Listed (OL)

Ordering data

Encoder interface	Part No.	Type	Documentation ¹⁾	Language	Part No.	Type
	552117	CECX-C-2G2		DE	560603	GDCC-CECX-C-2G2-DE

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Technical data

Fieldbus interface,
PROFIBUS slave DP-V0
CECX-F-PB-S-V0



General technical data

Power consumption at 5 V	[W]	1.4
Status displays	LED (status)	
	LED red = bus fault	
Protection class		III
Product weight	[g]	140
Materials		
Note on materials	Contains PWIS (paint-wetting impairment substances)	
	RoHS-compliant	

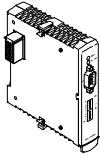
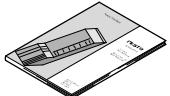
Technical data – Interface

Fieldbus	
Type	PROFIBUS slave DP-V0
Connection technology	Sub-D socket, 9-pin
Transmission rate	9.6 kbps ... 12 Mbps
Electrical isolation	Yes

Operating and environmental conditions

Ambient temperature	[°C]	5 ... 55
Storage temperature	[°C]	-40 ... +70
Resistance to shock	EN 60068-2-27 EA	
	15 g, 11 ms (half-sine)	
Resistance to vibration	EN 60068-2-6-FC	
	5 ... 9 Hz 3.5 mm	
	9 ... 150 Hz 1g	
Relative air humidity	[%]	10 ... 95
Protection class		IP20
Certification		cULus Listed (OL)

Ordering data

Fieldbus interface, PROFIBUS slave DP-V0	Part No.	Type	Documentation ¹⁾	Language	Part No.	Type
	552102	CECX-F-PB-S-V0		DE	560567	GDCC-CECX-F-PB-S-V0-DE

1) User manual in paper form is not included in the scope of delivery

Multi-axis controllers CMXR-C1

Accessories

Teach pendant
CDSA-D1-VX

FESTO



General technical data		
Operating voltage range	[V DC]	19 ... 30
Nominal operating voltage	[V DC]	24
Current consumption ¹⁾	[A]	0.4
User memory	[MB]	256
Display		Colour TFT
Display size		6.5"
Display resolution		VGA, 640x480 pixels
Display properties		Touch screen
Number of function keys		31
Number of system LEDs		4
Operating elements		2 enabler keys Emergency stop
Area of application		Only with multi-axis controller CMXR-C1
Ethernet interface		2 interfaces RJ45, 10/100 Mbps
USB interface		Yes
Backup battery		Yes
Product weight	[g]	1,250
Materials		
Note on materials		Contains PWIS (paint-wetting impairment substances) RoHS-compliant

1) At nominal operating voltage

Operating and environmental conditions		
Ambient temperature	[°C]	0 ... +50
Storage temperature	[°C]	-20 ... +70
Relative air humidity	[%]	5 ... 95
Protection class		IP65
CE mark (see declaration of conformity)		To EU EMC Directive

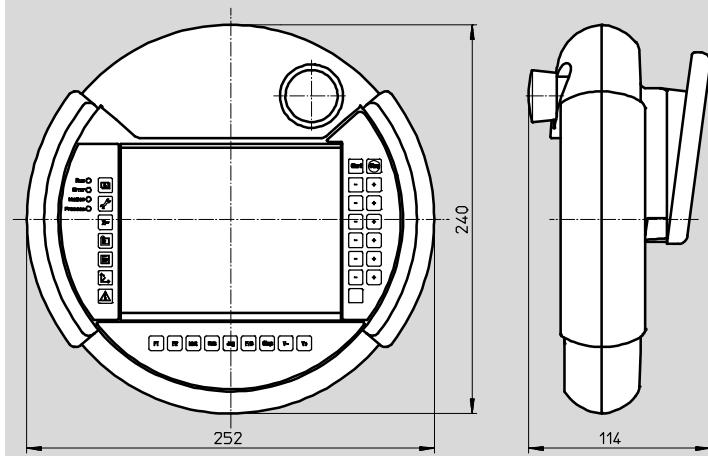
Multi-axis controllers CMXR-C1

FESTO

Accessories

Dimensions

Download CAD data ➔ www.festo.com



Ordering data

	Part No.	Type
Teach pendant	552103	CDSA-D1-VX

Ordering data – Documentation¹⁾

	Language	Part No.	Type
		System manual	
	DE	560333	GDCP-CDSA-SY-DE
	EN	560334	GDCP-CDSA-SY-EN
	ES	560335	GDCP-CDSA-SY-ES
	FR	560336	GDCP-CDSA-SY-FR
	IT	560337	GDCP-CDSA-SY-IT
		Part No.	Type
		Software manual	
		560339	GDCP-CDSA-SW-DE
		560340	GDCP-CDSA-SW-EN
		560341	GDCP-CDSA-SW-ES
		560342	GDCP-CDSA-SW-FR
		560343	GDCP-CDSA-SW-IT

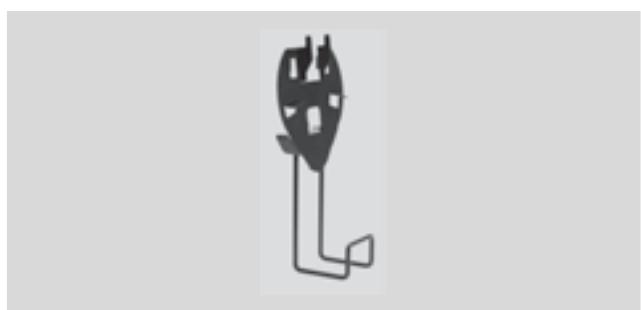
1) User manual in paper form is not included in the scope of delivery

Multi-axis controllers CMXR-C1

Accessories

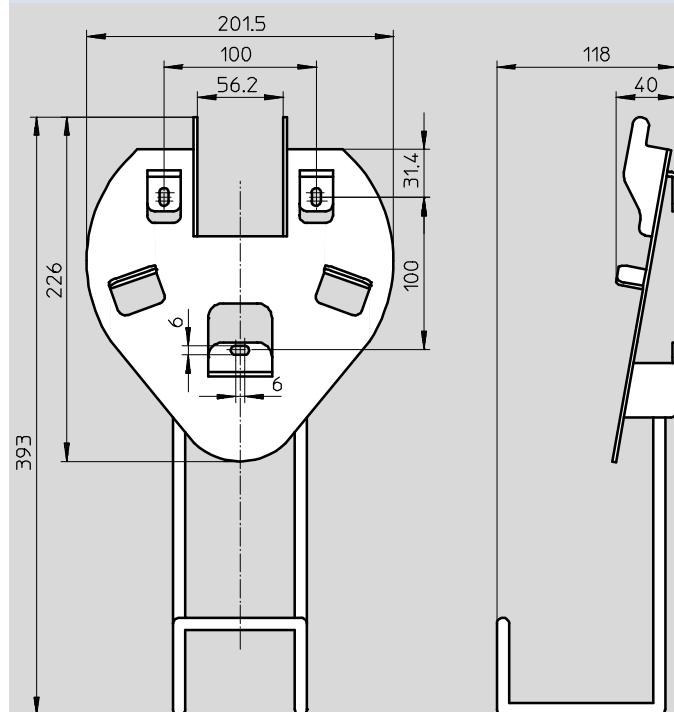
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Retainer
CAF-M-D1-W



Dimensions

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Ordering data

	Part No.	Type
Retainer	552107	CAF-M-D1-W

Multi-axis controllers CMXR-C1

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Accessories

Interface housing

CAMI-C



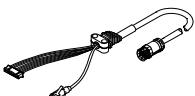
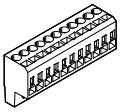
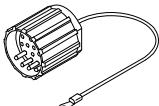
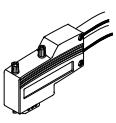
General technical data

Type of mounting	On control cabinet wall (M25)	
Mounting position	Any	
Electrical connection	Ethernet interface: RJ45	
	Coninver connector M25, 17-pin	
	Spring force connector, 11-pin	
Protection class	IP65 to IEC 60529	
Dimensions		
Length [mm]	26	
Width [mm]	67.2	
Height [mm]	76.1	
Materials		
Note on materials	Contains PWIS (paint-wetting impairment substances)	
	RoHS-compliant	

Ordering data

	Part No.	Type
Interface housing	552116	CAMI-C

Ordering data – Cables and plugs

	Brief description	Cable length [m]	Part No.	Type
	Connecting cable: between multi-axis controller CMXR and teach pendant CDSA via interface housing CAMI-C	5	552104	NESC-C-D1-5-C1
		10	552105	NESC-C-D1-10-C1
		15	552106	NESC-C-D1-15-C1
	Plug for interface housing CAMI-C, 11-pin	-	558328	NECC-L1G11-C1
	Plug for peripheral modules, 2-pin		553857	NECC-L1G2-C1
	Plug for peripheral modules, 4-pin		553858	NECC-L1G4-C1
	Plug for peripheral modules, 6-pin		553859	NECC-L1G6-C1
	Plug for peripheral modules, 8-pin		553860	NECC-L1G8-C1
	Plug for peripheral modules, 18-pin		553861	NECC-L1G18-C1
	Plug: is used to bridge the emergency stop circuit when the teach pendant is disconnected	-	555676	CAMF-B-M25-G4
	Plug: for Profibus interface; Sub-D, 9-pin, without terminating resistor	-	533780	FBS-SUB-9-WS-PB-K
	Plug: for CAN bus interface; Sub-D, 9-pin, without terminating resistor		533783	FBS-SUB-9-WS-CO-K

Product Range and Company Overview

A Complete Suite and Company Overview

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Festo North America



[1] Festo Canada Headquarters
Festo Inc.
5300 Explorer Drive
Mississauga, ON
L4W 5G4

[2] Montréal
5600, Trans-Canada
Pointe-Claire, QC
H9R 1B6

[3] Québec City
2930, rue Watt#117
Québec, QC
G1X 4G3



[4] Festo United States Headquarters
Festo Corporation
395 Moreland Road
Hauppauge, NY
11788

[5] Appleton
North 922 Tower View Drive, Suite N
Greenville, WI
54942

[7] Detroit
1441 West Long Lake Road
Troy, MI
48098

[6] Chicago
85 W Algonquin - Suite 340
Arlington Heights, IL
60005

[8] Silicon Valley
4935 Southfront Road, Suite F
Livermore, CA
94550

Festo Regional Contact Center

Canadian Customers

Commercial Support:
Tel: 1 877 GO FESTO (1 877 463 3786)
Fax: 1 877 FX FESTO (1 877 393 3786)
Email: festo.canada@ca.festo.com

Technical Support:
Tel:1 866 GO FESTO (1 866 463 3786)
Fax:1 877 FX FESTO(1 877 393 3786)
Email: technical.support@ca.festo.com

USA Customers

Commercial Support:
Tel:1 800 99 FESTO (1 800 993 3786)
Fax:1 800 96 FESTO (1 800 963 3786)
Email: customer.service@us.festo.com

Technical Support:
Tel:1 866 GO FESTO (1 866 463 3786)
Fax:1800 96 FESTO(1 800 963 3786)
Email: product.support@us.festo.com